

Introduction to Radiation Biology and Radiation Physics Workshop

September 11, 2006 8:00AM – 5:00PM

Hock Plaza Auditorium, Duke University Medical Center

Lead Instructors: Dr. Michael Robbins, Wake Forest University, Dr. Terry Yoshizumi, Duke University Medical Center

Topics to Include:

- Introduction to Radiation Chemistry
- Radiation Cell Killing
- Normal Tissue Responses to Radiation
- Acute Radiation Effects following Whole Body Exposure
- Radiation units and type of radiation
- Radiation instrumentation and dosimetry

Learning objectives:

- Understand how irradiating biological material leads to the generation of free radicals and DNA damage
- Be able to construct clonogenic survival curves and determine radiobiological parameters for mammalian cells
- Know how to determine the radiation responses of normal tissues, and the radiation biology of the acute radiation syndromes
- Understand the various types of radiation and radiation units
- Understand how radiation machines work and how to do dose assessment
- Learn how to use physicists as consultants
- Appreciate importance of quality assurance of radiation machines

Registration is FREE

But please let us know your are coming:

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